5(2) AUTHORS:

Babko, A. K., Get'man, T. Yo.

307/75-1-7-10/31

TITLE:

Chloride Complexes of Pentavalent Tolybdenum (Khloridayye

kompleksy pyativalentnogo molibdena)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 1, Nr 3,

pp 585-590 (USSR)

ABSTRACT:

The complex compounds of pentavalent molybdenum in hydrochloric acid solutions were investigated by spectrophotometric determinations in the altraviolet and visible range A reddish-brown complex with the absorption maximum at 295 and 395 mu forms in < 2 n hydrochloric acid concentration.

295 and 395 mu forms in < 2 n hydrochloric acid concentration. With the increase in the concentration to 4-5 n a greenish-brown complex forms with the absorption maximum at 450 and 730 mμ. At a further increase in the hydrochloric acid concentration a greenish-blue complex forms with the absorption maximum at 240 and 310 mμ. The absorption spectra of molybdenum (V) were recorded at different hydrochloric acid concentrations and are given by figures 1, 2, and 3. For the explanation of the differences between the absorption spectra and for the measurement of the optical density at

Card 1/4

 $\lambda = 450$ m μ experiments were carried out in series with

Chloride Complexes of Pentavalent Molybdenum

307/78-4-3-16/34

molybdenum (V) solutions at constant concentration of hydrochloric acid (1.5 n) and variable concentration of lithium chloride, as shown in figure 4. From these experiments it follows that the complex formation is due to the variation of the oxygen content in the coordination sphere. At constant concentration of the hydrogen ions in the case of an increase in the chlorine ionic concentration the second form of the complex is formed and in the case of a further increase in the [LiCl] -content to \sim 6.5 n the complex passes over into the third form. This transition of the complex is explained by the introduction of the chlorine ion anto the coordination sphere. For the purpose of determining the composition of the chloride complex of molybdenum (Y) some isomolar series of $\operatorname{Mo}^{{\sf V}}\text{-LiCl}$ were investigated in the presence of perchloric acid. The experiments confirm that the absorption spectra run parallel, measured in the range of the wave length of 350-500 m μ ; they are also dependent on the acidity of the solution. For the second complex form MoOCl, the ratio Mo^{V} : Cl' = 1 : 3 was found. For the third form of the

Card 2/4

Chloride Complexes of Pentavalent Molybdenum

SCY/78-1-3-16/34

ASSOCIATION:

Institut obshchey i neorganicheskoy khimii #kademii nauk USSR

(Institute of General and Inorganic Chemistry of the Academy

of Sciences, UkrSSR)

SUBMITTED:

July 2, 1957

Card 4/4

5 (3)

Babko, A. K., Get'man, T. Ye.

JOY/79-29-7-69/83

TITLE:

Investigation of the Reaction of Chromate With Diphenyl Carbazide

(Izucheniye reaktsii khromata s lifenilkarbazidom)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 7, pp 2416-2420 (TSSR)

ABSTRACT:

The formation of an intensely colored compound on the reaction of chromates with diphenyl carbazide (further designed as PC) is frequently used in the chemical analysis. Nevertheless, the chemism of this reaction has hitherto been vigorously discussed. Quite recently a number of new papers on this subject was published. Without dealing with the details of these papers, table 1 presents the principal data regarding methods and results obtained by various scientists. It can be seen from it that the data are contradictory. The investigations carried out by the authors (Ref 5) with respect to the reaction of the trivalent chromium with DCO in the presence of an acetate buffer solution gave the following results: the trivalent chromium reacts neither with diphenyl carbazide nor with diphenyl carbazone; the bivalent one does not react with diphenyl carbazone. The inaccurate data of a number of authors are explained by a sideprocess, i.e. by the formation of the above-mentioned compound

Card 1/3

Investigation of the Reaction of Chromate With Diphenyl Carbazide

107/79-29-7-69/83

in the reaction of acetic acid with diphenyl curbusome, irrespective of presence or absence of chromium. In the reaction of CrVI with diphenyl carbazide a complex compound of the trivalent chromium with the colored oxidation product of diphenyl carbazide is formed. The colored reaction product of Cr with diphenyl carbazide can be separated partially or nearly completely, according to the conditions, from chromium by extraction with isoamyl alcohol, in which connection the absorption spectrum of the solution of the colored compound does not vary. In the presence of complex-forming compounds the chromium combines with them without any loss of color of the solutions. In the presence of reduction agents added on reaction of Cr VI with diphenyl carbazide no colored compound is formed. Some questions regarding the reaction mechanism of Cr VI with diphenyl carbazide were discussed. There are 2 tables and 8 references, 2 of which are Soviet.

Card 2/3

Investigation of the Reaction of Chromate With Diphenyl Carbazide

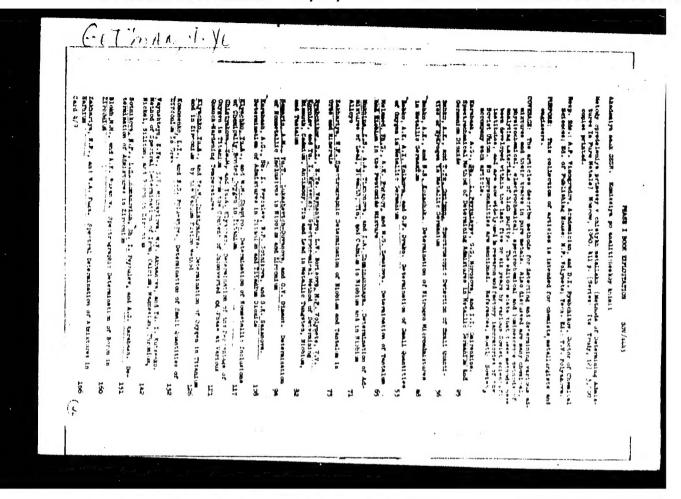
:07/79-29-7-59/83

ASSOCIATION: Institut obshchey i neorganicheskoy khimii Akademii n.uk USSR (Institute of General and Inorganic Chemistry of the Academy of Sciences of the Ukrainian SSR)

SUBMITTED:

Lay 29, 1958

Card 3/3



Spectroscopic determination of small amounts of hydrogen in metallic germanium. Trudy Kom. anal. khim. 12:36-47 '60. (MIRA 13:8)
(Germanium—Hydrogen content) (Hydrogen—Spectra)

\$/078/61/006/002/005/017 B017/B054

AUTHORS:

Babko, A. K., Volkova, A. I., Get'man, T. Ye.

TITLE:

Crystalline Salicylate Complex Compounds of Titanium

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1961, Vol. 6, No. 2,

Pp. 354 - 359

TEXT: The authors studied the composition and properties of salicylate and pyridine salicylate complexes of titanium separated from aqueous solutions in solid form. The solubility of titanium salicylate depends on the pH of the solution. Fig. 1 shows the solubility of titanium salicylate as dependent on the pH of the solution. The formation of titanium salicylate complexes from aqueous solutions proceeds stepwise. The investigation of the composition of the crystalline titanium salicylate complexes shows that the titanium salicylate ratio in these compounds in dependence on the pH of the solution is 1:1,1:2, and 1:3. The pyridine salicylate complexes of titanium were produced by adding pyridine to the aqueous titanium salicylate solution, a fine crystalline yellow powder being formed in the cold, in which the ratio of components Ti: Sal: Py = 1:3:1, Card 1/3

Crystalline Salicylate Complex Compounds of Titanium

\$/078/61/006/002/005/017 B017/B054

whereas from hot solutions a crystalline orange-chlored precipitate is separated in which the ratio of components Ti: Sal: Py = 1:3:2. Titanium pyridine salicylates are extractable with chloroform. The following formulas were suggested for the structure of solid titanium salicylate complexes:

$$(NH_{4})H[TiO(<_{OC}^{O} C_{6}H_{4})_{2}]$$
 (1), $(NH_{4})H[TiO(<_{OC}^{O} C_{6}H_{4})_{2}]$ (2),

$$NaH \left[Ti \left(\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right) c_{6}H_{4} \right)_{3} \right], \qquad (NH_{4})_{2} \left[Ti \left(\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right) c_{6}H_{4} \right)_{3} \right] \qquad (3),$$

$$PyH[Tio(<_{HOC}^{O} - c_{6}H_{4})_{3}] \quad (4), \text{ or } (PyH)_{2}[Ti(_{OC}^{O} - c_{6}H_{4})_{3}] \quad (5).$$

Card 2/3

Crystalline Salicylate Complex
Compounds of Titanium

Solity/B054

There are 2 figures, 2 tables, and 8 references: 4 Soviet, 3 German, and 1 French.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii AN USSR (Institute of General and Inorganic Chemistry, Academy of Sciences UkrSSR)

SUBMITTED: December 28, 1959

Legend to Fig. 1: a) concentration of Ti in the solution

Card 3/3

BABKO, A.K.; VOLKOVA, A.I.; GET MAN, T.Ye.

Determination of the composition of strongly hydrolyzing cations. Zhur.neorg.khim. 6 no.5:1035-1041 My '61.

(MIRA 14:4)

1. Institut obshchey i neorganicheskoy khimii AN USSR.

(Complex compounds)

Reaction of molybdate with diphec, nairacto diphenyliarbazone. Ukr. khiz., thur., 27 no. 5 oc. (Ma.... 14:11)

1. Investut obshchey i neorganicheskoy khizid AN USSR. (Molybdenum compounds)

BABKO, A.K.; VOLKOVA, A.I.; GET'MAN, T.Ye.

Colored complexes of titanium with salicylate. Zhur.neorg.khim. 7 no.2:284-290 F 162. (MIRA 15:3)

1. Institut obshchey i neorganicheskoy khimii AN USSR. (Titanium compounds) (Salicylic acid)

BABKO, A.K.; VCIKCVA, A.I.: GET!MAN, T.Ye.

Colorles. salicylate complexes of titanium. Thur.neorg.khim. 7 no.9:2167-2172 S *62. (MIRA 19:9)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR. (Titanium compounds) (Salicylic acid)

BABKO, A.K., mkademik; Vetkeva, A.I.; Forman, T.Ye. Sectman, T.C.)

Formation of a protection coulder to the system versules (T. - fluction salicylate - quinter. Dep. AN SECTION (C. R. 1981) (C.). (MIRA 1982)

1. AM Skrost for Enoke).

BABKO, A.K.; VOLKOVA, A.I.; GET'MAN, T.Ye.; PAVLOVA, M.Kh.

Complex formation in the system vanadyl(4) - salicylate. Ukr.khim. zhur. 29 no.12:1235-1240 '63. (MIRA 17:2)

l. Institut obshchey i neorganicheskoy khimii AN Ukr3SR i Institut khimii Bolgarskoy Akademii nauk.

VOLKOVA, A.I.; GET'MAN, T.Ye.

Complex formation in the system vanadium (5) - salicylate. Ukr. khim. zhur. 29 no.12:1240-1246 '63. (MIRA 17:2)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

VOLKCVI, A.I., GET'MAN, T.Ye.

System vanadium (V) = salicylate = organic base. Lhur. neorg.
Rhim. 9 no.5:1109=1116 Ny '64.

ACCESSION NR: AP4011979 S/0073/64/030/001/0102/0106

AUTHORS: Volkova, A.I.; Get'man, T.Ye.; Yemtsova, N.A.

TITLE: Determination of titanium in metallic aluminum in the form of a ternary titanium-salicylate-quinine complex

SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 30, no. 1, 1964, 102-106

TOPIC TAGS: metallic aluminum, ternary titanium salicylate quinine complex, titanium determination, sodium salicylate

ABSTRACT: An earlier study was made of the salicylate complexes of titanium and the ternary salicylate complexes of titanium with pyridine, quinine and pyramidon. (A.K. Babko and A.I. Volkova, D. AN URSR, 12, (1959 1336); Zh. Anal, kh. 5 (1960 587) Ternary complexes were used to determine titanium in steel. Continuing this work, the ternary complex being formed during the reaction of titanium-salicylate acid with quinine was studied. This complex differs in that it has greater stability and is more intensively colored than salicylate complexes of titanium with other organic bases (pyridine, pyramidon etc.). The method for determining 1/3 Card

ACCESSION NR: AP4011979

titanium is based on the formation of a colored ternary titanium-salicylate-quinine complex, which is extracted in a wide pH interval from 2.5 to 4. In studying the relationship of titanium extraction to quinine concentration, solutions with a constant concentration of TiCl₄ 5.6 x 10⁻⁵ mole/liter and / NaHSal / = 2xl0⁻² mole/liter were prepared. Overall quinine concentration in the aqueous phase was varied from 4 x 10⁻⁵ to 5 x 10⁻⁴ mole/liter. Maximum titanium extraction was observed starting with a quinine concentration of 2 x 10⁻⁴ mole/liter. This indicates a high extraction factor of the ternary Ti complex because a one and one-half to twofold quinine surplus relative to Ti is adequate for a full extraction. Solutions containing 5.6 x 10⁻⁵ mole/liter of TiCl₄ and 1.6 x 10⁻⁴ mole/liter of quinine were prepared for studying the relationship of titanium extraction to salicylic acid concentration, and the salicylate concentration was varied from 2 x 10⁻⁴ to 6 x 10⁻⁵ mole/liter. The maximum extraction was observed with a thirty-fold sur-

Card 2/3

ACCESSION NR: AP4011979

plus of sodium salicylate. The extraction-photometric method was developed for determination of titanium in metallic aluminum. Sensitivity of the method is 1 x 10⁻⁴%. Orig. art. has: 4 figures, 2 tables.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii AN UkrSSR (Institute of general and inorganic chemistry, AN UkrSSR)

SUBMITTED: 20Mar63

DATE ACQ: 14Feb64

ENCL: 00

SUB CODE: CH, EL

NO REF SOV: 004

OTHER: 000

Card 3/3

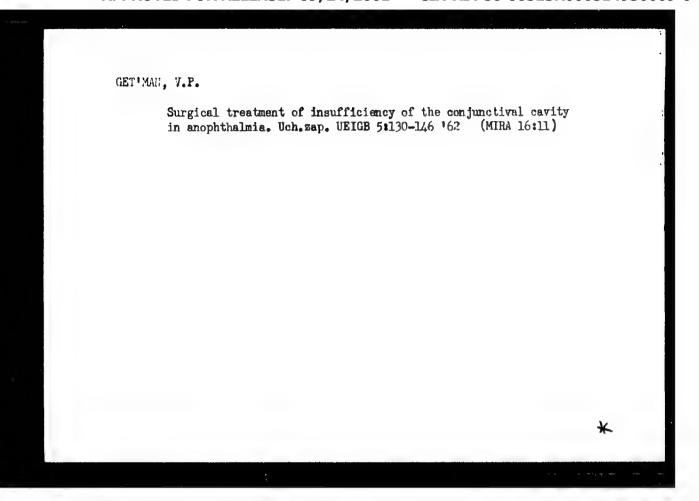
VOIKOVA, A.I.; GET'MAN, T. Ye.

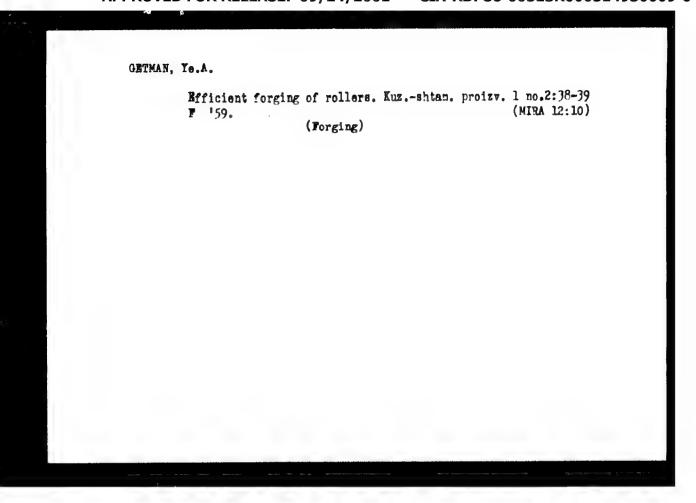
Extraction-photometric method of determining quinine as a ternary complex titanium-salicylate-quinine. Ukr. khim. zhur. 31 no. 12:1320-1322 *65 (MIRA 19:1)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR. Submitted April 21, 1965.

- 1. 277 TIME, V. A.
- 2. 037. (600)
- 4. Arionin Ature
- 7. by a mail high in any farrows. List by the any

9. Monthly List of Russian Accessions, Library of Congress, _____1953, Unclassified.





MANAKIN, A.M., kand.tekhn.nauk; IVANCV, N.Kh., inzh.; GET'MAR,
Ye.A., inzh.

Using chemically solidifying mixtures. Konstr.i tekh.manh.
no.1:125-137 '61. (MIRA 15:2)

(Sand, Foundry---Additives)

LATYSHEV, S.E., insh.; VISIN, N.O., insh.; GRT'HAN, Yu.V., insh.

Some conclusions derived from the testing of VL23 electric locomotives. Elek. i tepl. tiaga 4 no. 12:11-12 D '60.

(MIRA 14:1)

(Electric locomotives--Testing)

GET MAN, Ye.A., inzh.

Automating the process of preparing east iron with appercidal graphite. Lit. proizw.no.9:11-13 S 465. (MEA 18:10)

Get'MAN, Yu.V., insh.

Galculation of the heating of traction motors, Shor. trud.
DilT no 39:152-155 163, (MIRA 18:4)

ORTMAN-SYCHEVA, N. M.: Doc Med Sci (diss) -- "Material on the use of natural nitrogen-radon waters for synecological treatment under sea conditions". Tomak, 1958. 18 pp (Tomak State Med Inst), 500 dopies (EI, No 1, 1953, 195)

5 024/2 (*12/04/ 315/61) B114/8:57

2171

Koron, M. M., Corresponding Member, AS USSR, Andreyeva, 1. 7., AUTHORS:

and gethings k, The le

unitation polymerization of a-mathyl complein in the resence ef virious redox systems

Akaramaga nauk SSSR. Doklety, v. 1 2, h. . , ton., togtatogaj BURIODIUAL:

TEXT: "Lemothyl corologn wis clymerized in various rodgy species in the resence of a new type or emulsifler, aqueous polyacreless sulfite. This gields a stable emulsion, and polymerization takes place in the albella of the emulsifier. Polymerization is carried out in ten times the about of Nater with a dition of twice the amount of a 2 % aqueous emulaitier, all related to the monomer used. The most suitable redex restem for this longer is potassium persulfate and silver nitrate which gives high polymer profits of maximum molecular weight. All a-methyl-acrolein polymers obtained contain 65-70 % alsehydic groups, while for polyacrolein prepared in the Dame redox systems this figure is 20-70 %. This is due to the methylor of in the side chain of the a-methyl acrolein molecule, which provents to

Caid 1/2

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cycling of the audelylic groups, suich occurs in the corolect release. The colymers obtained are solible in partitine; their intrinsic victority in partitine ranges from 0.1% and molecular weight, determined from the poefficient of progressive cirtusian and the intrinsic victority, we between 10,000 and 199,000. The white powders obtained could be middled to 2000 and 7% at to light ye low plates with a noftening point retween 100 and 1990. W. Ye. Eskin and S. I. Kienin are thanked if recomming the vibrosity, finding the diffusion coefficient, and for landslating the clocked progressity, finding the polymers obtained. There are 2 titles. The Lighth-language for rence is: E. Cilbert, J. Doniesvy, J. Adv. Colm. 3 . . 60, 1777 (1933).

ADSCOIATION: Institut vysokomolekuljarnykh sojelineniy Akasemii nauk 2009

(Institute of High-molecular Compounds of the Academy of

Sciences U.SR)

3UB...TTTLD: March 25, 1962

Card 2/2

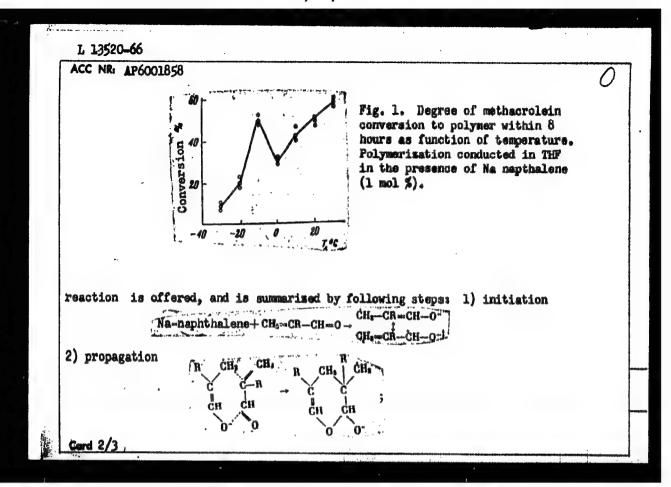
KOTON, M.M.; ANDREYEVA, I.V.; GETMANCHUK, Yu.P.

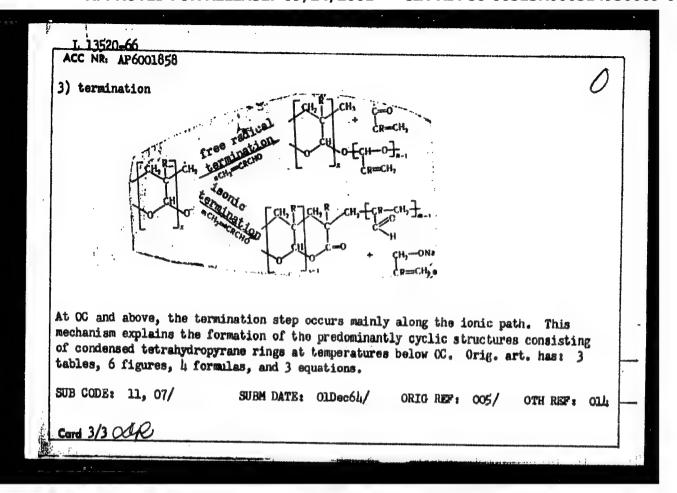
Polymerization of meta-acrolein with anion catalysts. Dokl. AN SSSR 155 no. 4:836-838 Ap '64. (MIRA 17:5)

1. Institut vysokomolekulyarnykh soyedineniy AN SS. k. 2. Chlen-korrespondent AN SSSR (for Koton).

Card 1/3

Ed.(1)/202(1)/2 £ 13520-66 SOURCE CODE: UR/0190/65/007/012/2039/2047 AUTHORS: Koton, M. H.; Andreyeva, I. V.; Getmanchuk, Yu. P.; Madorskava, L. Taei Pokrovskiy, Ye. I.; Kol'tsov, A. I.; Filatova, V. A. ORG: Institute of High-Molecular Polymers AN SSSR (Institut vysokomolekulyarnykn soyedineniy AN SSSR) TITLE: Structure of methacrolein polymers, obtained in the presence of anionic catalysts. 3rd report in the Series Polymerization of Acrolein and Its Derivatives SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 12, 1965, 2039-2047 TOPIC TAGS: polymerization, polymer structure, reaction mechanism, catalyst/ Nippon Bunko infrared spectrophotometer DS 301, GNM 3 nuclear magnetic resonance spectrometer ABSTRACT: The structure of polymers obtained from methacrolein and ox -ethylacrolein in the presence of sodium naphthalene and sodium trityl using the method described by M. M. Koton, I. V. Andreyeva, and Yu. P. Getmanchuk (Dokl. AN SSSR, 155, 836, 1964) was investigated. The structure analysis was performed by chemical means: oxime formation, hydrogenation, oxidation with perbenzoic acid, ozonization, as well as by physical means: infrared spectra, using Nippon-Bunko spectrophotometer DS-301, and NMR spectra, using instrument GNM-3. It was established that the rate of conversion of methacrolein and the structure of the obtained polymer are both functions of the polymerisation temperature, as illustrated in Fig. 1. Mechanism of the polymerisation UDC: 678.01:53+678.744





L 13082-66 ENT(m)/ENP(j)/T RM

ACC NR: AP6002215 (A) SOURCE CODE: 179/008

SOURCE CODE: UR/0080/65/038/012/2740/2744

AUTHOR: Andreyeva, I. V.; Koton, M. H.; Getmanchuk, Yu. P.; Tarasova, M. G.

ORG: Institute of High Holecular Compounds, AN SSSR (Institut vysokomolekulyarnyk soedineniy AN SSSR)

TITLE: Emulsion polymerization of methacrolein

SOURCE: Zhurnal prikladnoy khimii, v. 38, no. 12, 1965, 2740-2744

TOPIC TAGS: emulsion polymerization, methacrolein, catalytic polymerization, high polymer, polymer, acrylic plastic

ABSTRACT: Emulsion polymerization of methacrolein was studied in the presence of potassium persulfate and silver nitrate with a solution of polyacrolein bisulfite as a specific emulsifier. The object of the work was to develop a process for making a soluble polymer with high molecular weight containing reactive aldehyde groups. The optimum ratio of the monomer to water is 1:8 and the optimum polymerization temperature is 50° C. In all experiments the emulsifier content was constant (5 wt % based on the monomer). The amount of the initiator varied but the ratio of silver nitrate

Card 1/a

UDC: 1 678.744

L 13082-66

ACC NR: AP6002215

activator to potassium persulfate oxidative agent was 10:1. The oxygen content in the inert gas was $0.05\cdot 10^{-2}$ to $2\cdot 10^{-2}$ %. The characteristic viscosity of polyacrolein product increased with increasing depth of polymerization. Presence of alderly hyde groups in the polymer product permits further processing into new types of plastic sheets or resin fibers. The dependence of polyacrolein characteristic viscosity upon polymerization duration is shown in Fig. 1. The effect of pH upon polymer characteristic viscosity η is shown in Fig. 2. It was found that the lower the oxygen and propionic aldehyde contaminant content, the higher was the polyacrolein molecular weight. Orig. art. has: 3 figures and 2 tables.

SUB CODE: 07,14/ SUBM DATE: 05Mov64/ ORIG REF: 004/ OTH REF: 002

Card 2/3

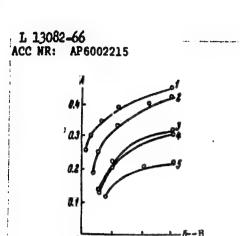


Fig. 1. Polyacrolein characteristic viscosity η as a function of polymerization duration. A - characteristic viscosity η ; B - is polymerization duration in hours: the ratio of $K_2S_2O_8$ to $AgNO_3$ in mole \S ; 1 - 0.6:0.06; 2 - 0.6:0.06 (in presence of a buffer), 3 and 4 - 1.3:0.13; 5 - 2.6: 0.267.

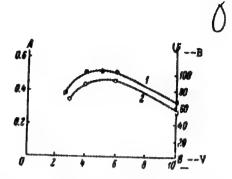
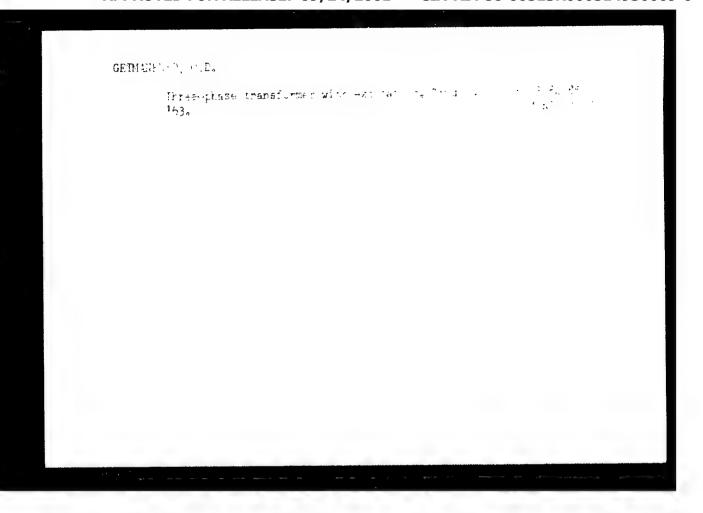


Fig. 2. The effect of solution pH on polyacrolein characteristic viscosity η and polymer yield for 6 hr polymerization and $K_2S_2O_8$: AgNO₃ ratio of 0.6:0.06 mole %.

A = η ; B = percent conversion; Y = initial solution pH; 1 = polyacrolein yield in percent; 2 = polymer characteristic viscosity η .

BAMDAS, A.M., dektor tekhr. nauk; Jhannel, J.J., kunc. teeth. Hours GETTATEREO, C.D., inzh.

Calculation and determination of the optical accipac of bias controlled transferners and autotransferners. Trudy 1.7.18 no.1:5-71 162.



S/035/62/000/010/062/128 A001/A101

AUTHORS:

Getmanenko, T. V., Nikishkin, A. I.

TITLE:

Results of visual observations of meteors in the Crimea

PERIODICAL:

Referativnyy zhurnal, Astronomiya i Geodeziya, no. 10, 1962, 65, abstract 10A466 (In collection: "Ionosfern. issled. (meteory), no. 8", M., AN SSSR, 1962, 102 - 109, English summary)

TEXT: Observations were carried out during 18 nights in August 1958 at the Crimean meteor station of VAGO. During the indicated period of time, a group of 5 - 9 observers recorded 4,200 meteors. The coefficient of attention and its variations were studied. The authors present the diagram of the number of Perseids and luminosity function for Perseids and background meteors, as well as the azimuth distribution of directions of sporadic meteors. There are 6 refer-

Authors' summary

[Abstracter's note: Complete translation]

Card 1/1

enges.

KOMARKOV,V.; GETMANEHKO, V., starshiy master stantsii

Noninflammable cleaning solutions. Pozh.delo 5 no.7:14 Jy '59.

(KIRA 12:9)

1. Nachal'nik Novosibirskoy pozharno-ispytatel'noy stantsii
(for Komarkov)

(Cleaning compounds)

Chemical cleaning of smokehouse smokers. Pozh.delo 7 no.5:10
My 161. (MIRA 14:5)

(Novosibirsk-Smokehouses-Fires and fire prevention)

IRHNO, A.G., kand.tekhn.nauk.; GETMANENKO, V.M., insh.

Increasing the safety of mine electric equipment. Bezon.truda v oron. 2 no.3:6-7 Mr '59. (MIRA 11:3)

1. Makeyevskiy nauchno-isaledovatel'skiy institut no bezonasnosti rabot v gornoy promyshlemosti.

(Blectricity in mining)

GETMANENKO-MAKSIMOV, Yu. L. Cand Biol Sei -- (diss) "Certain physiological changes connected with the reproductive functions of cows and depending on conditions of feeding." Mos, 1957. 11 pp (All-Union Sci Res Inst of Animal Husbandry)

(KL, 43-57, 87)

-17-

L 38184-66 ACC NR: AP6013816

(N)

SOURCE CODE: UR/0066/65/000/006/0005/0008

7708

AUTHOR: Kritskiy, Ye. D.; Slyusarenko, V. I.; Kuznetsov, D. A.; Getmanets, A. I.

ORG: none

TITLE: Klimat-4 ship air conditioner

SOURCE: Kholodil'naya tekhnika, no. 6, 1965, 5-8

TOPIC TAGS: air conditioning equipment, refrigeration equipment

ABSTRACT: The Klimat-4 air conditioner is designed for year-round operation on vessels not equipped with central air conditioning systems. It controls both temperature and relative humidity and can move 1500 m³ of air an hour. The Klimat-4 consists of a cooling unit, air heater, humidifier, fan, and automatic regulator system; freon-22 is used as a coolant. A detailed breakdown of the technical parameters and a description of each component of the air conditioner are given. It is recommended for use on ships and in hospitals, kindergartens, cafes, and restaurants. Orig. art. has: 2 figures, 2 tables.

SUB CODE: 13/

SUBM DATE: none

UDC: 628.83 : 629.12

Card 1/1 vmb

VYCHECZHANIN, A. G., nauchnyy sotrudnik; SHEYNIN, B. Ya., nauchnyy sotrudnik; KARAMYSHEV, V. B., nauchnyy sotrudnik; GRIMANISTO, I. Ya., nauchnyy sotrudnik; MANOYLENKO, S. M., vrach (Khar'kov)

Influence of washing solutions and cooling and lubricating liquids on the skin of machine shop workers. Vrach. delo no.6: 124-126 Je *62. (MIRA 15:7)

(MACHINERY INDUSTRY WORKERS__DISEASES AND HYGIENE)
(SKIN.__DISEASES)

SHAPIRO, D.D.; GETMANETS, I.Ya.

Changes in the immunological structure of the body following the effect of cancerogenic chemical substances. Hinl. eksp. biol. i med. 57 no. 2:93-97 F 164. (MIRA 17:9)

1. Ukrainskiy nauchno-issledovatel'skiy institut gigiyeny truda i professional'nykh zabolevaniy (dir. - dotsent G.I. Yevtushenko), Khar'kov. Predstavlena deystvitel'nym chlenom AMN SSSR N.N.Zhukovym-Verezhnikovym.

GETMANIETS, Nina Aleksandrovna, agr.; SELEZNEV, N.G., red.; FULIK, L.I., tekhn. red.

[Sowing ofcertified seeds assures high crop yields] Sortowye posevy -garantiia vysokogo urozheia. Tula, Tul'skoe knizhnoe izd-vo, 1960.

(MIRA 14:11)

(Field crops)

SHNEYDER, M.S., dotsent; KRASNOKUTSKAYA, T.P.; GETMANETS, R.A. (Donetsk)

Modification of the open oxygen method for determining the volume of residual air and the uniformity of pulmonary ventilation; the method of Darling, Cournand and Richards. Klin.med. no.4: 79-84 62. (MIRA 15:5)

GETMANETS, V.N.

Sarcome of the pericardium. Vrach.delo no.6:647 Je '57. (MLRA 10:8)

1. Kafedra patologicheskoy anatomii Stalinskogo meditainskogo instituta

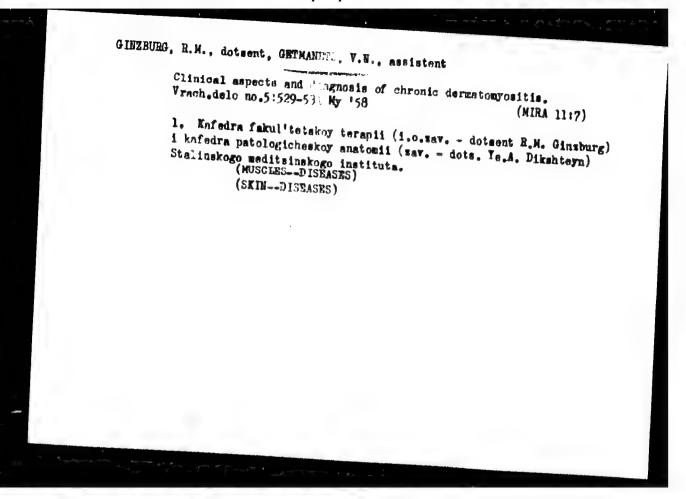
(PERICARDIUM--GANGER)

Case of actinomycosis with injury of the central nervous system.
Vrach.delo no.1:63-84 '60.

1. Kafedra patologicheskoy anatomii (zav. - dotsent Ye.A. Dikshtayn) kafedra infektsionnykh bolezney (zav. - dotsent S.A. Yerez) i kafedra nervoykh bolezney (zav. - prof. P.A. Miniovich)
Stalinskogo meditsinskogo instituta.

(ACTINOMYCOSIS)

(NERVOUS SYSTEM--DISEASES)



SOV/130-59-1-11/21

AUTHORS: Kruskal', M.S., and Getmanets, V.V.

TITLE:

Operation of Continuous Furnaces for Continuous Mills (Rabota metodicheskikh pechey nepreryvnykh stanov)

PERIODICAL: Metallurg, 1959, Nr 1, pp 24-27 (USSR)

ABSTRACT: The authors discuss a 180-m2 hearth area, two-zone, recuperator type continuous furnace (Fig 1) designed by Stal'proyekt, used for heating square 80 and 60 mm billets 11-12 m long for a continuous mill. The furnace is heated by 28 injection burners (Fig 2) and temperature in each zone is automatically controlled with the aid of a platinum/platinum-rhodium couple. ling potentiometer, an IR-130 regulator and a type A type EPP-120 control-IMT-6/120 actuator which adjusts the valve in the burner line are used. Pressure is controlled with a type RDM-35 regulator which adjusts the flue valve. Temperatures are measured at several points. The billets are pushed through with a 42-tonne pusher with a speed of 0.18 m/sec.

The authors tabulate the main characteristics of these Card 1/2 furnaces and discuss their advantages and disadvantages. Among the defects was the construction of the charging end

Operation of Continuous Furnaces for Continuous Hills

of the furnace and this has been rebuilt (Fig 3). Another improvement was the introduction of a compressed air injection tube into the burner which enabled the calorific value of the gas mixture to be increased to 1800 k cal/m³. The expected firing rate through ejection of hot air from the recuperators is 65 x 10° k cal/hour. The authors also suggest that the inclination of the furnace floor should be reduced from the designed value of 8° 15°, and that burner design should be modified to utilize higher calorific-value gas. There are 3 figures and 1 table.

ASSOCIATION: Zavod "Krivorozhstal' (Krivorozhstal' Works)

Card 2/2

\$/130/60/000/010/009/009/XX A006/A001

AUTHORS -

Khovrin, B. V , Getmanets, V. V.

TITLE:

Operation of Roller Accessories of Merchant Mills

PERIODICAL. Metallurg, 1960, No. 11, pp. 27-30

TEXT: High efficiency of high-speed merchant or wire rolling mills depends mainly on the satisfactory operation of roller accessories and their durability, A table is given where comparative characteristics of roller accessories of domestic and foreign mills are presented. From the merchant mills enumerated the high durability of roller fixtures of one British and one American mill is noted (10,000 and 8,000 tons respectively). The fixtures are made of expensive and scarce alloying elements or alloys. A practical solution of the problem is suggested by using fixtures with rollers made of ordinary steel or cast iron such as the inlet roller box shown in Figure 1 and the delivery manipulating roller fixture of a continuous merchant mills illustrated by Figure 2. The inlet roller box consists of two guiding rulers covered by top and bottom plates. The rulers are fixed to the box frame with bolts which are simultaneously their axles. Smooth rollers are mounted into the rulers to maintain the strips of rectilinear cross section. The rollers are made of Cr 5 (ST 5) steel subjected Card 1/4

Operation of Roller Accessories of Merchant Mills

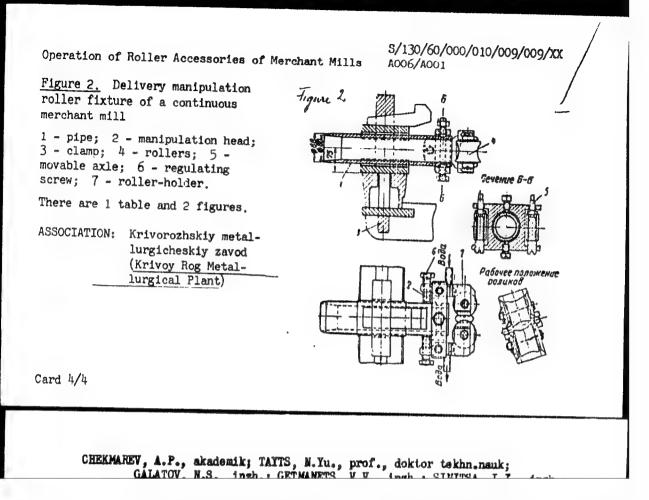
S/130/60/000/010/009/009/xx A006/A001

to subsequent quench-hardening; water-cooled textolite bearings are used. The gap between the rollers is regulated by bolts; plate-shaped springs mounted underneath the regulating bolts protect the fixtures against shocks from the rolled strip and ensure the pass of the front end of the rolled stock with slight defects. The durability of the described roller box is 7,000 t. The delivery manipulating roller fixture shown in Figure 2 is characterized by the removal of the metal from the rollers by an ordinary thick-walled pipe on whose tail the manipulation head with the rollers is mounted. The pipe with the head is fixed in a special clamp mounted on the delivery beam. The necessary angle of strip tilting is produced by turning the head. St.5 rollers are mounted on friction bearings. Their position in respect to the manipulation plane is regulated by the thread of the movable axle. The gap between the rollers is modified by screws. This makes it possible to use the box for rolling of a wide range of profiles. The manipulation head is easily exchangeable. The durability of the manipulation rollers is 12,000 tons. The use of these rollers prevents the sticking of metal to the operational surface and eliminates surface defects. The high durability and cheapness of the described fixtures made of ordinary steel or cast iron can be recommended for a wide use on rolling mills.

Card 2/4

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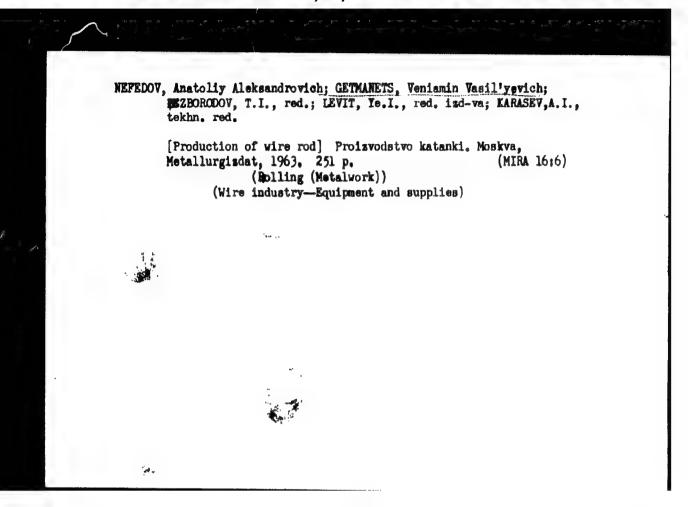


CHEKMAREV, A. P., akademik; OSTAPENKO, V. V., inzh.; BORISENKO, G. P., inzh.; GETMANETS, V. V., inzh.; LEVCHENKO, L. M., inzh.

Rolling of angle steel on a continuous mill. Nauch. trudy DMI no.48:79-93 162. (MIRA 15:10)

1. Akademiya nauk Ukrainskoy SSR (for Chekmarev).

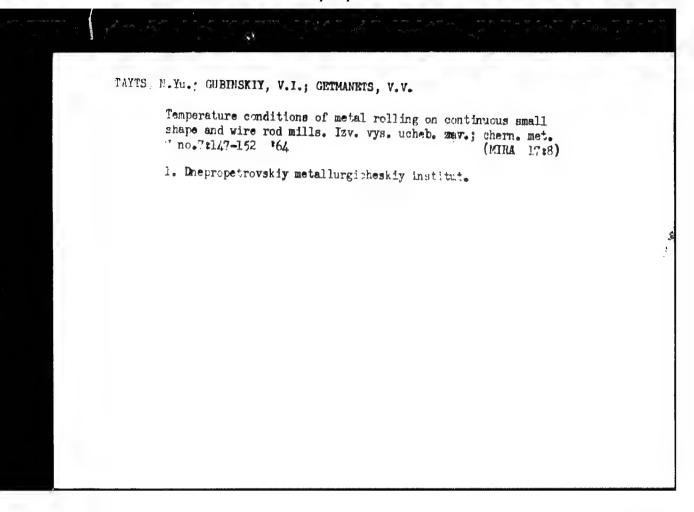
(Rolling(Metalwork))



 GETMANETS, V.V., inzh.; KOSTYUCHENKO, M.I., inzh.; SATSKIY, V.A., inzh.; SINITSA, I.I., inzh.

New method of selecting a rolling technology on continuous shape mills. Stal' 23 no.10:921-923 0 '63. (MIRA 16:11)

1. Krivorozhskiy metallurgicheskiy zavod.



GETMANETS, V.V.; ZHUEBA, S.P.

Improvement of roll bearings. Metallurg 9 no.4:37-38 Ap '64.
(MIRA 17:9)

1. Krivorozhskiy metallurgicheskiy zavod.

CETMANETS, V.V.; BROYDT, A.S.

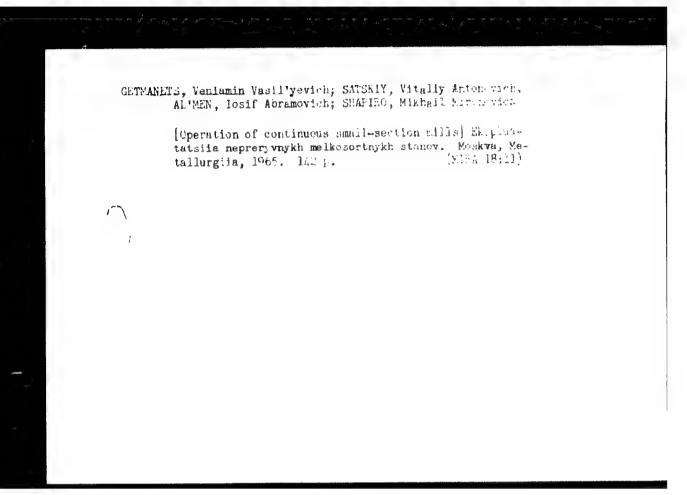
Effect of the characteristics of an electric drive on the technology of rolling on continuous light section mills. Met. i gornorud. prom. no.3:34-36 My-Je 165.

(MIHA 18:11)

GETMANETS, V.V., TSYBANEV, Ye.G.: JURICASSIC, A.I.

Greating the rolls of the roughing stant of control of ine too mills. Metallurg 10 no.10:28-28 0 %.5. (91% 18:16)

1. Krivorozhskiy metallurgi meskiy var i-



KOLGANOV, G.S.; PAVLENKO, I.I.; GETMANETS, Zh.S.; CHERNEGA, I.L.; SKOEKIN, M.F.

Using trays with ceramic inserts for the top pouring of steel.
Stal' 23 no.6:515-516 Je '63. (MIRA 16:10)

1. Krivorozhskiy metallurgicheskiy zavod.

GETMANIV A. ...

PHASE I BOOK EXPLOITATION

307/427

Avtomaticheskoye upravleniye i vychislitel'naya tekhnika, vyp. 3 (Automatic Control and Computer Techniques, No. 3) Moscow, Mashgiz, 1900. 489 p. Errata slip inserted. 7,000 copies printed.

Ed. of Publishing House: G.F. Polyakov; Tech. Ed.: T.F. Sokolova; Managing Ed. for Literature on Machine Building and Instrument Making (Mashgir): N.V. Pokrovskiy, Engineer; Editorial Board: V.V. Solodovnikov, Doeter of Technical Sciences, Professor (Chairman), N.N. Bogolyubov, Academician, A.Yu. T.hlinskiy, Academician, Ukrainian SSR, V.V. Kazakevich, Doeter of Technical Sciences, Professor (Deputy Chairman), A.A. Lyapunov, Doeter of Physics and Mathematics, Professor, B.N. Petrov, Corresponding Member, Academy of Sciences USSR, Ye.P. Popov, Doctor of Technical Sciences, Professor, G.S. Pospelov, Doctor of Technical Sciences, Professor, B.A. Ryabov, Doctor of Technical Sciences, Docent, V.V. Petrov, Doctor of Technical Sciences, Docent, V.N. Plotnikov, Candidate of Technical Sciences, Docent (Scientific Secretary), V.B. Ushakov, Doctor of Technical Sciences.

PURPOSE: This book is intended for scientific workers, engineers, and aspirants working in the field of automatic control.

Card 1/4

Automatic Control (Cont.)

S07/427:

COVERAGE: The book is the third collection of reports read at the seminar on automatic control and computer engineering of the NTO priberestr yearys (Scientific and Technical Society for Instrument Making), the MVTU im-Baumana (Moscow Higher Technical School imeni Bauman), and the MAI .m Ordzhonikidze (Moscow "Order of Lenin" Aviation Institute imeni Ordan nikalia) It contains papers on current topics in automatic control and computer engineering which, according to the author, are significant for the solution of problems involved in the complex automation of industrial processes by means of control machines and includes discussion of the design of linear and minlim and aut matic control systems. The book covers some questions related to the dynamics of such systems, ways of increasing operational speed, and means of btaining optimum transient processes. Automatic control systems involving discrete computers, systems with variable parameters, sampled data introl systems, the dynamic accuracy of these systems during random motions, and the the ry of sampled-data systems are discussed. No personalities are mentioned. References are found at the end of each article.

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| A. mail. (c: 1 (Cont.) | |
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AUTHOR:

Getmanov, A.G.

TITLE:

The dynamical pecularities of performing some linear

operations on a digital computer

PERIODICAL:

keferativnyy zhurnal. Avtomatika i radioelektronika. no. 4, 1961, 4, abstract 4 B23 (V sb. avtomat. upr. i vychisl. tekhn. no. 3, M., Mashgiz, 1960, 188-217)

TEXT: The application of digital computers to systems with continuous automatic control is considered. Some topics regarding the operation of computers, when realizing a certain linear operator are dealt with: 1) the conditions under which a digital computer can be considered as a continuous element of a control system are discussed, and 2) it is shown that a digital computer can perform only approximate operations of differentiation and integration. The degree of approximation depends on the method of solution, the form of the linear operation and the speed of operation from the point of view

Card 1/2

27973 S/194/61/000/004/005/052 D249/D302

The dynamical peculiarities...

of the theory of automatic control. the accuracy of approximation is determined by the frequency characteristics of the applied numerical methods of the approximate solution. A sufficiently adequate approximation of the frequency characteristics of the realising operator frequency characteristics is indicated and illustrated on examples of some simpler automatic control system sections 14 figures. 9 references. Abstracter's note: Complete translation

Card 2/2

L 05275-67 EWT d)/EWP(1) LJP(c) BB/GO ACC NRi AR6023996 SOURCE CODE: UR/037

SOURCE CODE: UR/0372/66/000/003/G042/G042

AUTHOR: Getmanov, A. G.; Igoshin, A. P.

4

TITLE: On the frequency analysis of the structures of linear functionals realizable by a digital computer in an analog-digital simulation system

160

SOURCE: Ref. zh. Kibernetika, Abs. 3G311

REF SOURCE: Sb. Analog. i analogo-tsifrovaya vychisl. tekhn. M., Mashinostroyeniye, 1965, 217-226

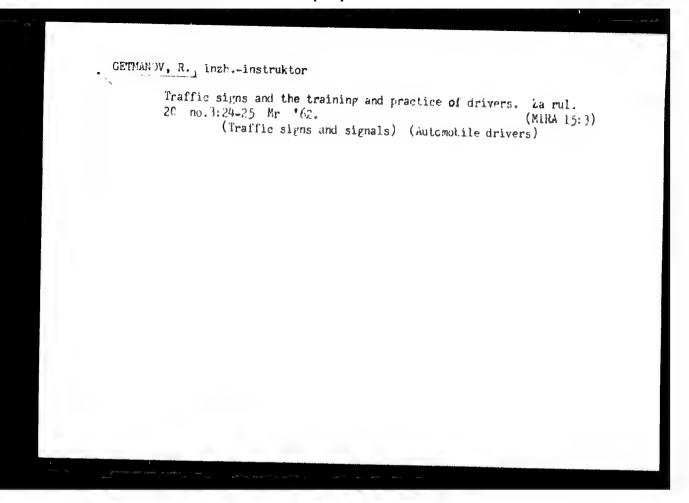
TOPIC TAGS: computer simulation, computer program, linear functional operator, mathematic analysis

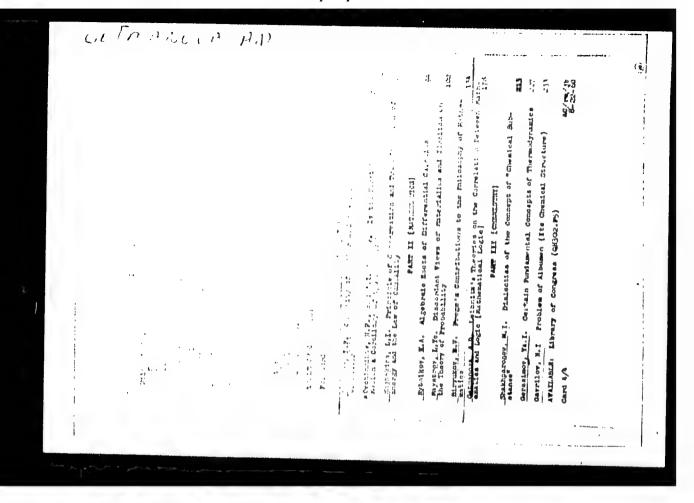
ABSTRACT: The realization of a linear functional with a constant coefficient by means of a digital computer is discussed. The computer program is compiled in accordance with the equivalent system of difference levels. Two chief problems are formulated; selection of the method of numerical solution and selection of the step of solution assuring the desired accuracy. Bibliography of 2 titles. E. G. [Translation of abstract]

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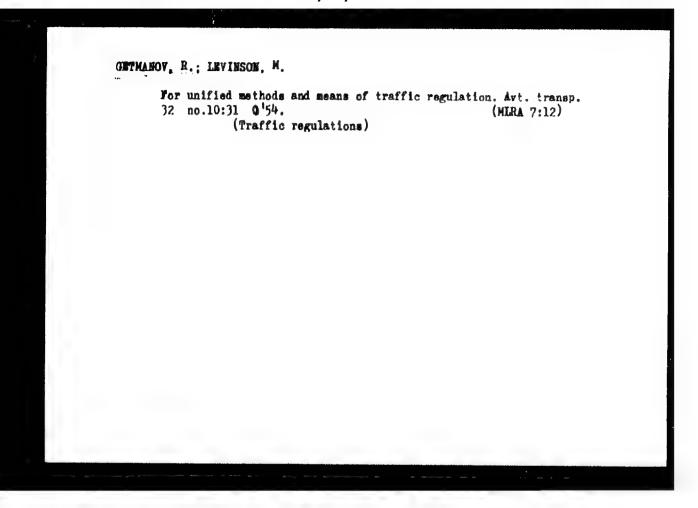
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UDC: 62-506:681.148:62





Calculation of the coefficient of kinematic viscosity of champagne. Vin.SSSR 15 no.3:24-25 '55. (MIRA 8:8) 1. Moskovskiy energeticheskiy institut imeni V.M.Molotova. (Champagne (Wine))



GETT.ARCV, R.; GOL*DENBERG, E.; PAVLOV, A.; YUMACHEV, M.B., spett, red.; MIKHAYLCV, n.I., red.

[Collection of problems on traffic regulations for automotive transportation] Sbornik zadach po pravioan dvizhenia avtotransporta. Moskva, Izd-vo F off. 1965. 351 p. (MIRA 2:7)

CHIRKIN, V.V., kand. tekhn. nauk; GETMANOV, R.Ya., inzh.

Serious shortcomings in an important document. Gor. khoz. Mosk. 32 no.7:42-43 Jl 158. (MIRA 11:6)

1. Instruktor shkoly avtolyubiteley Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu (for Getmanov).

(Moscow--Traffic regulations)

- 1. GETMANCY, Ya. Ya.
- 2. USSR (600)
- 4. Meadows-Komi A.S.S.R.
- 7. Sown meadows in arctic collective farms of the Komi A.S.S.R. Korm. baza. 3, No. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

CIA-RDP86-00513R000514930009-0 "APPROVED FOR RELEASE: 09/24/2001

USSR/Biology GATMANOV, YA YA.

FD = 1579

Card 1/1

: Pub. 42-11/11

Author

: Getmanov, Ya. Ya. and Kuznetsova, L. G.

Title

: On the question of the biology of sphagnums

Periodical

: Izv. AN SSSR. Ser. biol. 5, 135-144, Sep-Oct 1954

Abstract

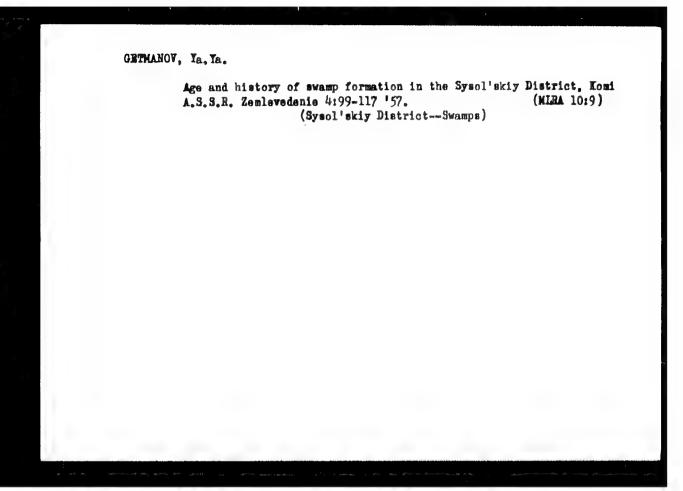
: Studied the effect of separate chemical factors on growth and coloration of sphagnums. Sphagnums used in the experiment were S. fuscum, S. medium, and S. recurvum. Organic and inorganic solutions were used as culture media, as follows: Organic: cane sugar, levulose, lactose, lactic acid, and acetic acid in various concentrations. Inorganic: a mixture of mineral salts (NaNO3, NaH2 PO4, KCl, CaSO4) in distilled water, also four solutions of the same mixture without N, K, P, and Ca, and in addition a solution of CaSOL in distilled water. Tables.

Seven references: 6 USSR (all prior to 1940)

Institution : Komi Affiliate of the Academy of Sciences of the UESR, town Syktyvkar

Submitted

: January 28, 1954



KUDACHKOV, I.A., kandidat tekhnicheskikh nauk: GETMANSKATA, M.V., inshener.

Improving sanitation conditions in foundries. Lit.proixv. no.5:
30 My *56.

(Foundries) (Industrial hygiene)

KHUDOYAN, T.S.; SHAROV, A.; CHIRKOV, I. (Stalinsk, Kemerovskaya oblast');
KHAUSTOV, S. (g.Novoshakhtinsk); ARKHIPOV, V., avtomatchik;
SHEVCHENKO, B.; GETMANSKAYA, Ye.; SUMTSOV, I.; KURDYUKOVA, L.,
doyarka (; BABIY, V. (Chernovitskaya oblasti'); MAKAROV, N.;
SOKOLOV, K.; SINITSKIY, N.

Letters to the editor. Sow. profsoiuzy 17 no. 5:35-39 Mr 161. (MIRA 14:2)

1. Zaveduyushchiy otdelom truda i zarplaty respublikanskogo sovrofa Armenii (for Khudoyan). 2. Staleprokatnyy zavod,
Leningrad(for Arkhipov). 3. Predsedatel' pravleniya kluba sovkhoza "Krasnyy Oktyabr'," Voronezhskoy oblasti (for Shevchenko).
4. Chleny pravleniya kluba sovkhoza "Krasnyy Oktyabr'," Voronezhskoy oblasti (for Getmanskaya, Sumtsov). 5. Sovkhoz "Krasnyy Oktyabr'," Voronezhskoy oblasti (for Kurdyukova). 6. Predsedatel' tsekhkoma kotel'no-svarochnogo tseka Vol'skogo zavoda "Metallist" (for Makarov). 7. Predsedatel' postroykoma Stroitel'nogo uchastka No. 2, g.Gagra, Gruzinskaya SSR (for Sinitskiy).

(Trade unions) (State farms)

MAN' KOVSKAYA, N.K., kand.khimicheskikh nauk; GETMANSKAYA, Z.I., inzh.

Methods of determining the isoacids content of commercial fractions of C10-C16 and C17-C20 fatty acids. Masl. zhir.pron. 28 no.3:29 Mr *62. (MIRA 15:14)

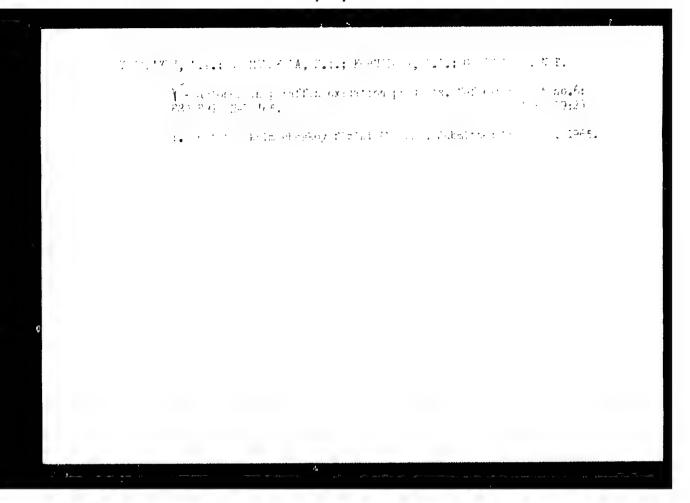
1. Nauchno-issledovatel'skiy institut sinteticheskikh zhirozameniteley i moyushchikh sredstv.

(Acids, Fatty--Analysis)

MAN'KOYSKAYA, N.K., kand.khim.nauk; GETMANSKAYA, Z.I., inzh.

Decomposition of the salts of synthetic fatty acids with carbonic acid, Masl.-zhir.prom. 29 no.2:18-21 F '63. (**IRA 16:4)

1. VNIISINZh. (Acids, Fatty) (Carbon dioxide)



The role of arterial angiomas and aneuryems of cerebral substance in the etiology of subarachmoid hemorrhage. Sov.med. 20 no.11:6-8 M '56. (MLRA 10:1) 1. Is patologoanatomicheskogo i nerwnogo otdaleniy 4-y gorodskoy bol'nitsy Moskvy (glavnyy vrach - zesluzhennyy vrach ESFSR M.V. Ivanyukov, nauchnyye rukovoditeli - prof. Ya.L.Rapcport, prof. Z.L. Lur'ye). (ANGIOMA, compl. brain, causing subarachmoid hemorrh.) (FISTULA, ARTERIOVENOUS, compl. eame) (SUBARACHMOID HEMORRHAGE, etiol. and onthogen. angioma & arteriovenous fistula in brain)

LUR'YE, Z. L.; GETMANSKAYA, Z. M.; YAVCHUNOVSKAYA, M. A.

Hemorrhages into the brain; anatomical, topical and etiological diagnosis. Nauch. trudy Inst. nevr. AMN SSSR no.1:62-70 160. (MIRA 15:7)

(BRAIN-_HEMORRHAGE)

GETMANSKAYA, Z.M.; OL'KHOVSKAYA, I.G.

Multiple aneurysms of the vessels of the basal portion of the crain. Vop.neirokhir. 24 no.1:36-37 Ja-F '60. (MIRA 13:10)

(INTRACRANIAL ANEURYSMS)

CIA-RDP86-00513R000514930009-0"

APPROVED FOR RELEASE: 09/24/2001

Investigating the distribution of plastic deformation by the photoplasticity method. Inv. vys. wher. rav.; chers. set. 8 no.5:76-81 '65. (**CEM** 19:4**)

1. Kramatorskiy industrial myy inetit.

 GETMANSKIY, G.I., nachal'nik lokmotivnoy slushby navoda (g. Vyksa); KALYAYEV,
G.K., brigadir po rementu (g. Vyksa)

The performance of the TUZ diesel locomotive has improved. Elek.
i tepl. tiaga 4 no.10127-28 0 '60.

(Diesel locomotives)

GETMANSKIY, I.K.

Using the p-toluidine method for determining the content of sodium salts of alkyl sulfates in synthetic detergents, Masl.-zhir. prom. 25 no.7:29-31 '59. (MIRA 12:12)

l. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov. (Cleaning compounds)

GETMANSKIY, I.K.; NEVOLIN, F.V., kand.tekhn.neuk

Refining of alkyl sulfates of synthetic secondary alcohols. Masl-zhir.prom. 26 no.5:18-20 My '60. (MIRA 13:12)

1. Nauchno-issledovatel'skiy institut sinteticheskikh zhirozameniteley i moyushchikh sredstv (for Getmanskiy). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov (for Nevolin). (Alcohols) (Sulfuric acid)

GETMANSKIY, I.K., ingh.; LESHCHENKO, Zh.Ya.

Some properties of alkyl sulfates of synthetic alcohols and their solutions. Masl.-shir.prom. 26 no.7:24-26 Jl '60.

(MIRA 13:7)

1. KIISZh i MS.

(Cleaning compounds) (Sulfuric acid) (Alcohols)